FIGURE 1

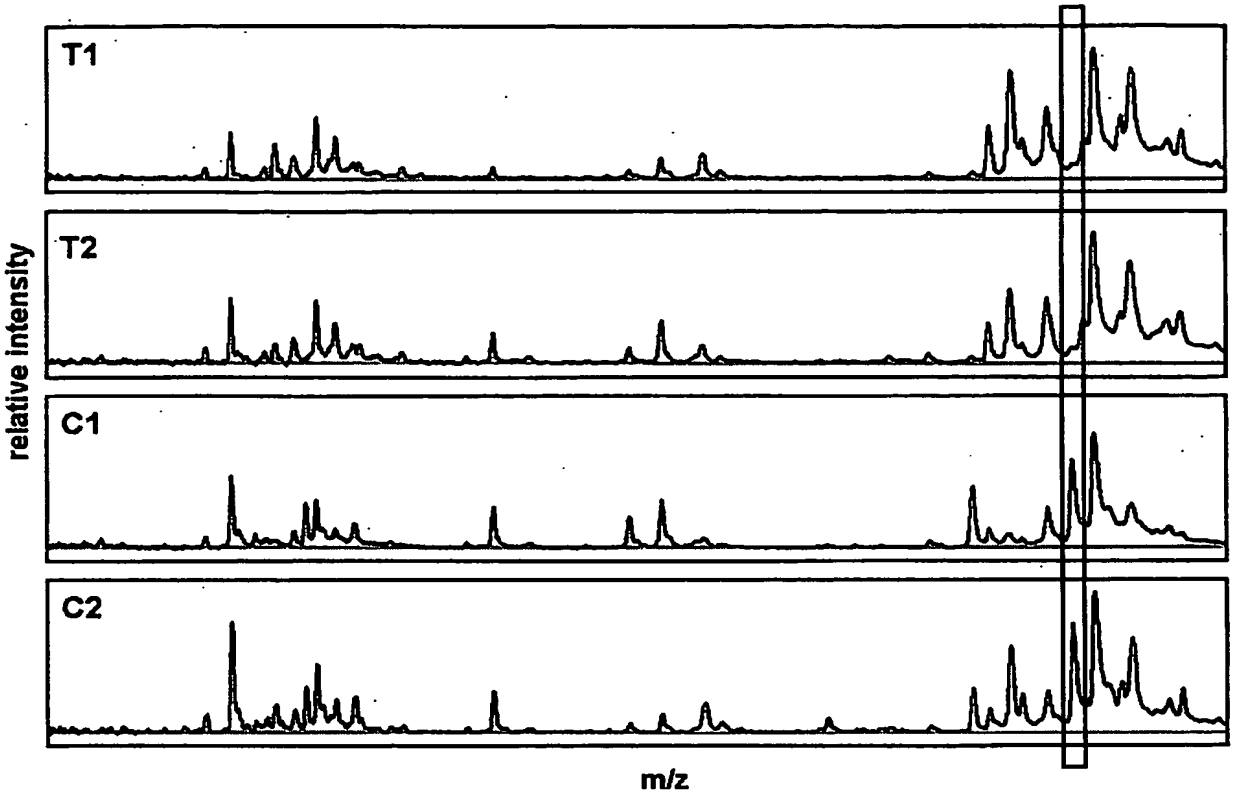


FIGURE 2A

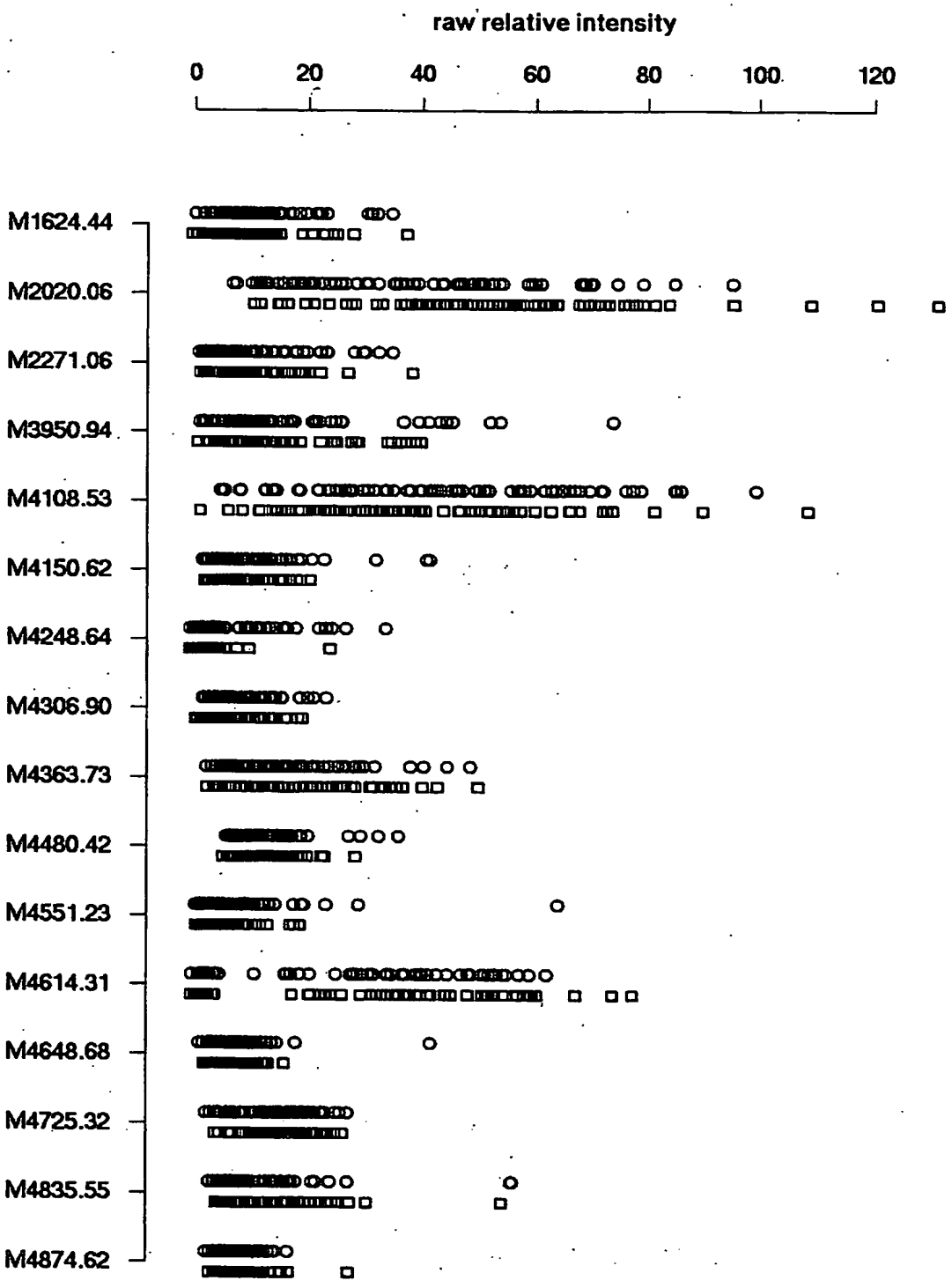

raw relative intensity
0
20
40
60
80
100
120
M1624.44
M2020.06
M2271.06
M3950.94
M4108.53
M4150.62
M4248.64
M4306.90
M4363.73
M4480.42
M4551.23
M4614.31
M4648.68
M4725.32
M4835.55
M4874.62

FIGURE 2B

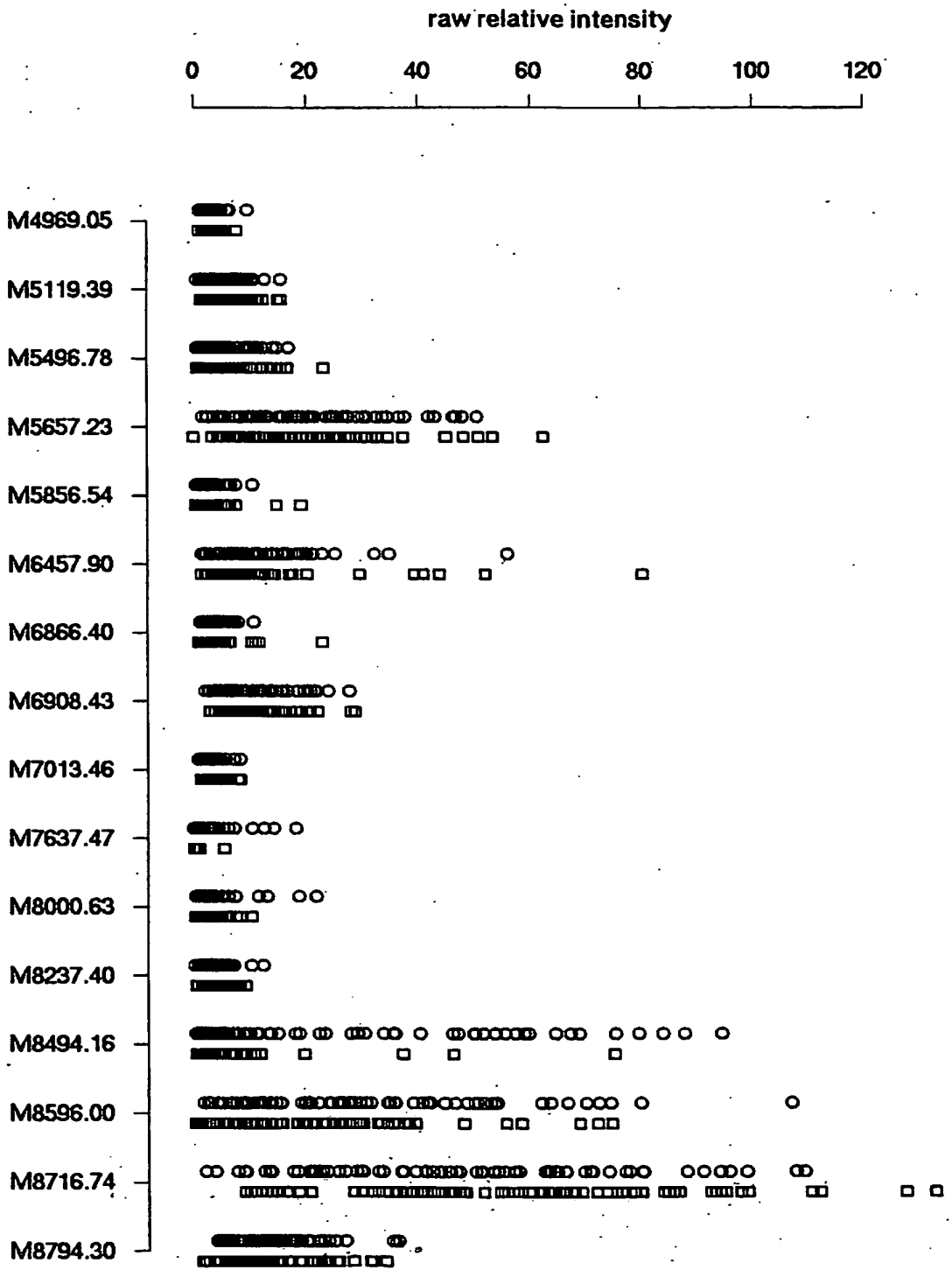

raw relative intensity
0
20
40
60
80
100
120
M4969.05
M5119.39
M5496.78
M5657.23
M5856.54
M6457.90
M6866.40
M6908.43
M7013.46
M7637.47
M8000.63
M8237.40
M8494.16
M8596.00
M8716.74
M8794.30

FIGURE 2C

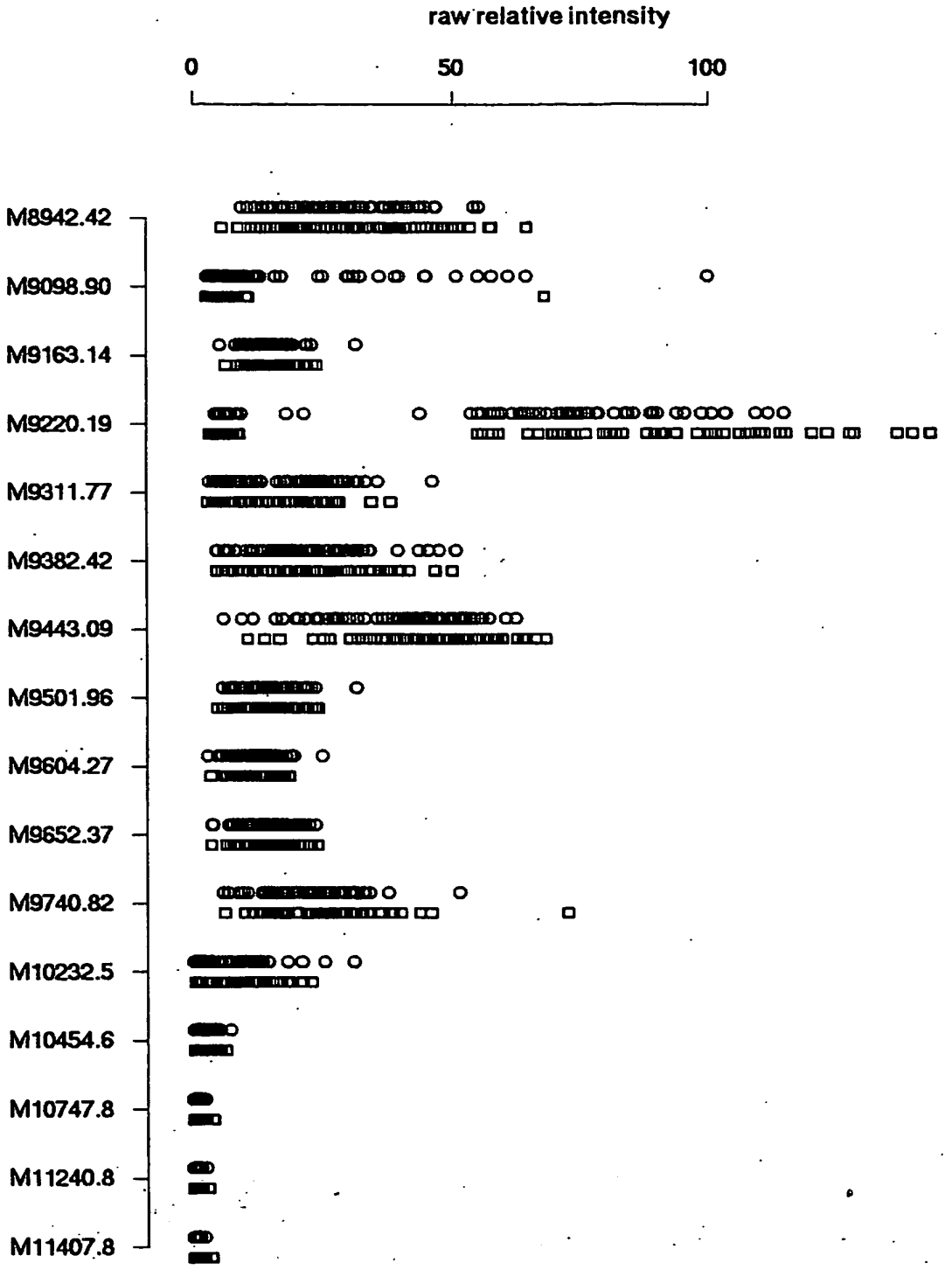

raw relative intensity
0
50
100
M8942.42
M9098.90
M9163.14
M9220.19
M9311.77
M9382.42
M9443.09
M9501.96
M9604.27
M9652.37
M9740.82
M10232.5
M10454.6
M10747.8
M11240.8
M11407.8

FIGURE 2D

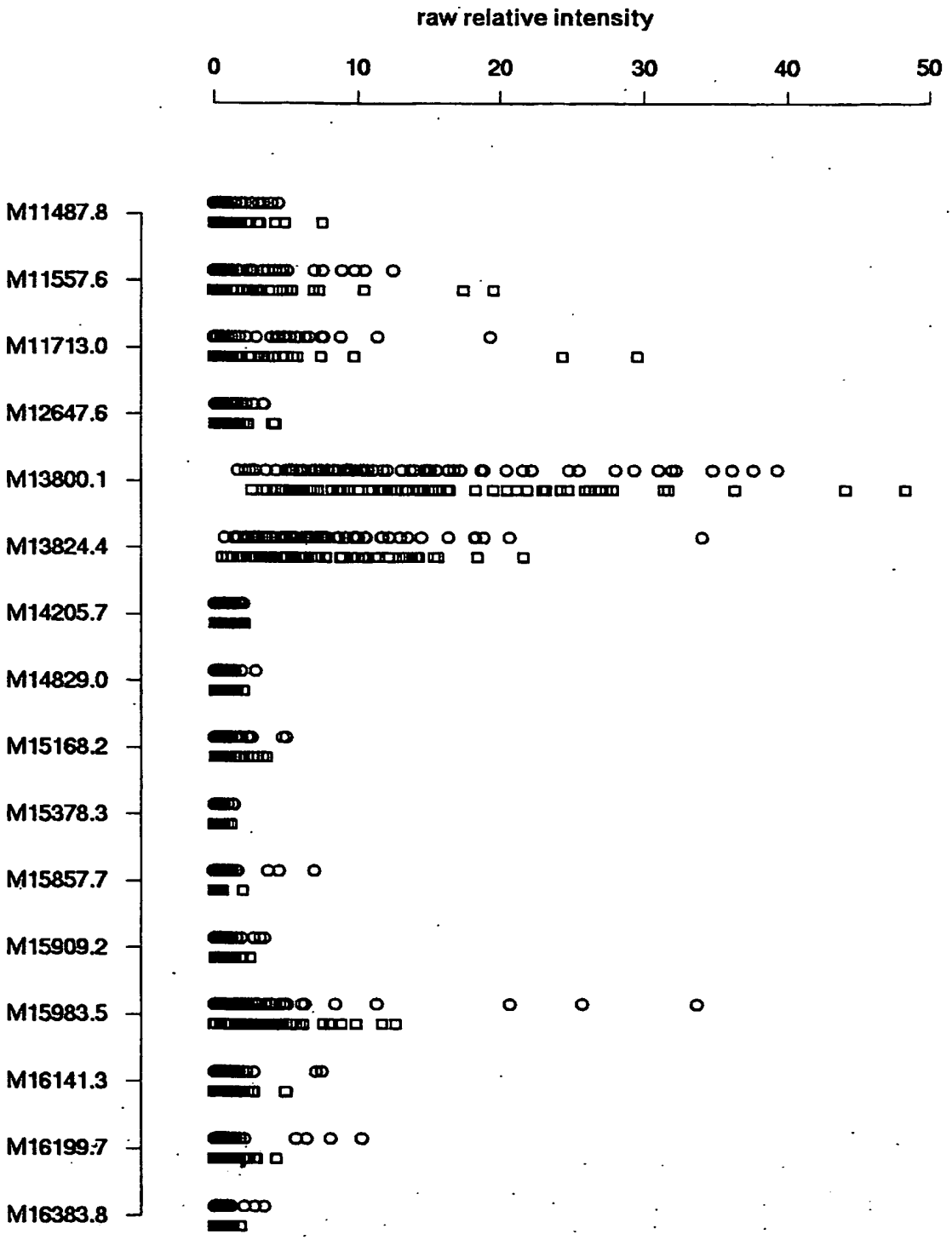

raw relative intensity
0
10
20
30
40
50
M11487.8
M11557.6
M11713.0
M12647.6
M13800.1
M13824.4
M14205.7
M14829.0
M15168.2
M15378.3
M15857.7
M15909.2
M15983.5
M16141.3
M16199.7
M16383.8

FIGURE 2E

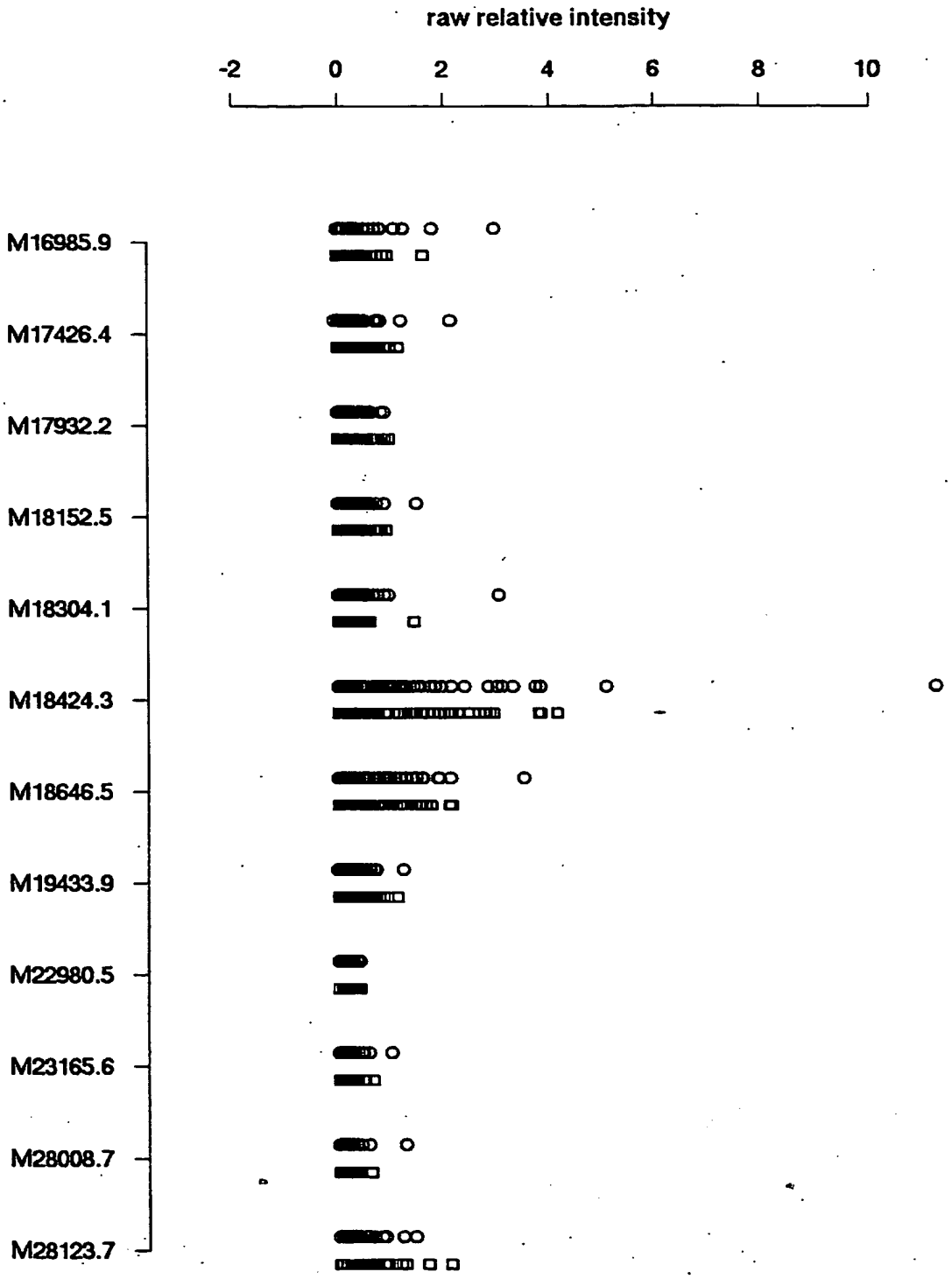

raw relative intensity
-2
0
2
4
6
8
10
M16985.9
M17426.4
M17932.2
M18152.5
M18304.1
M18424.3
M18646.5
M19433.9
M22980.5
M23165.6
M28008.7
M28123.7

FIGURE 3A

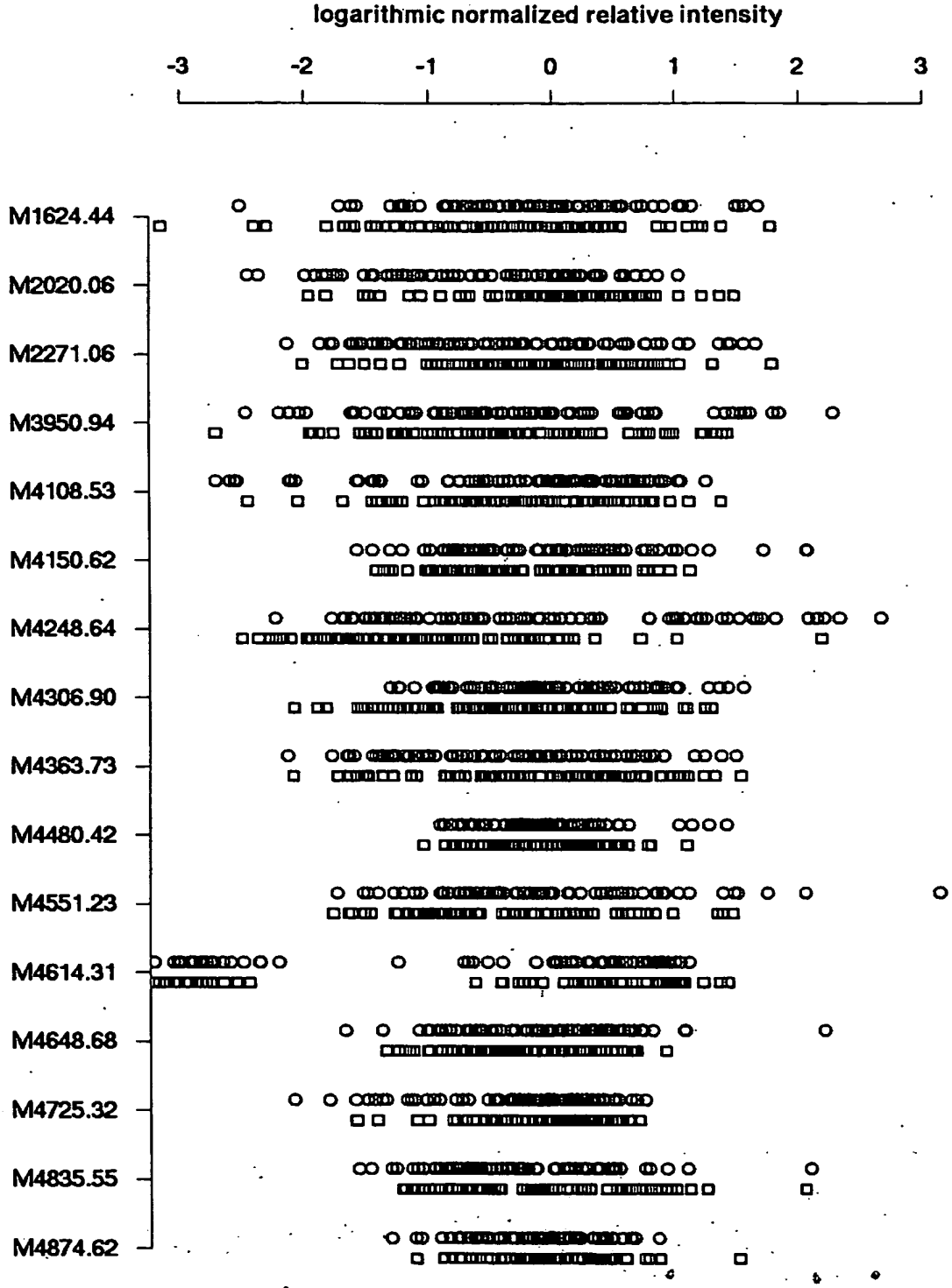

logarithmic normalized relative intensity
-3
-2
-1
0
1
2
3
M1624.44
M2020.06
M2271.06
M3950.94
M4108.53
M4150.62
M4248.64
M4306.90
M4363.73
M4480.42
M4551.23
M4614.31
M4648.68
M4725.32
M4835.55
M4874.62

FIGURE 3B

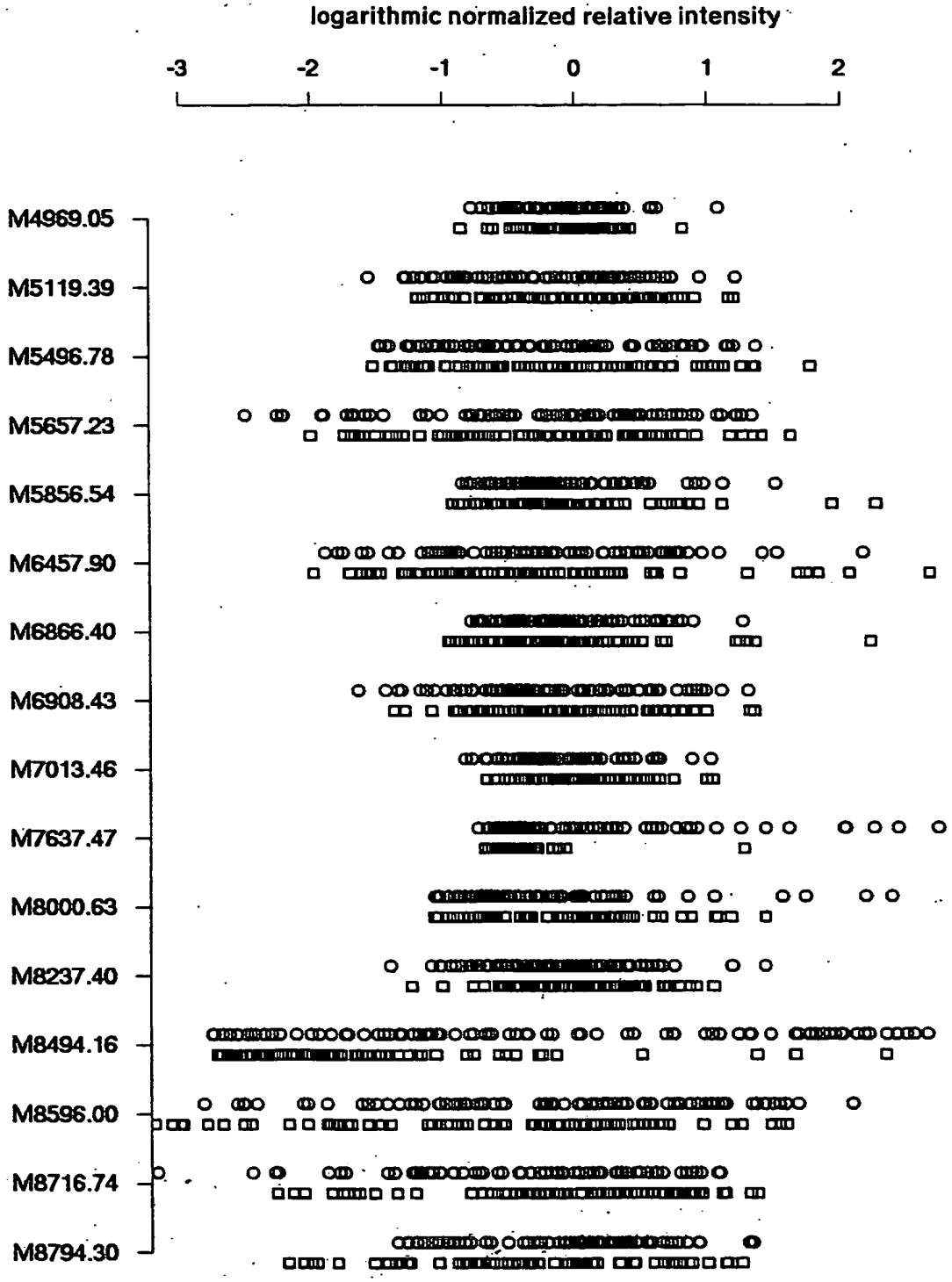

logarithmic normalized relative intensity
-3
-2
-1
0
1
2
M4969.05
M5119.39
M5496.78
M5657.23
M5856.54
M6457.90
M6866.40
M6908.43
M7013.46
M7637.47
M8000.63
M8237.40
M8494.16
M8596.00
M8716.74
M8794.30

FIGURE 3C

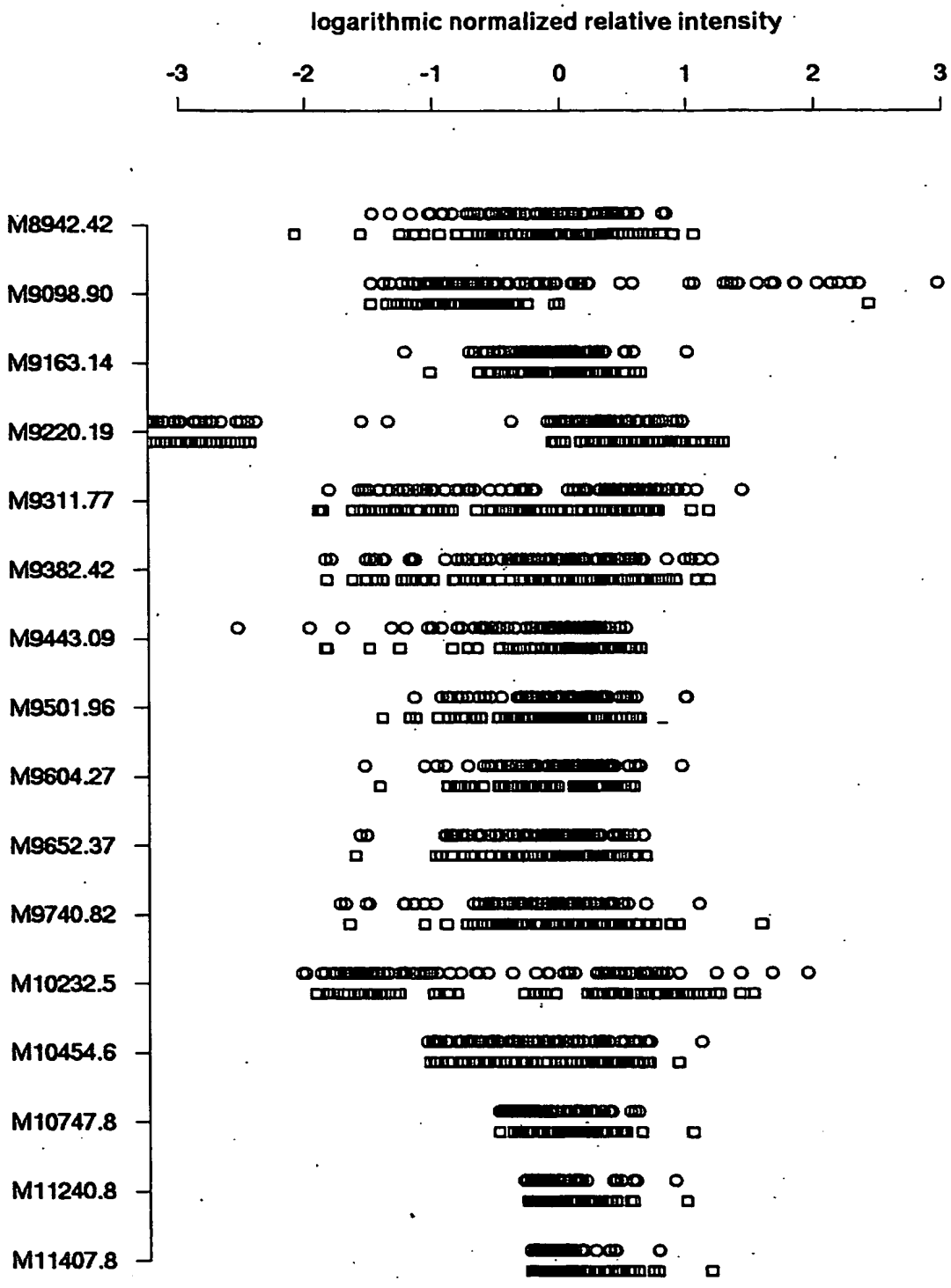

logarithmic normalized relative intensity
-3
-2
-1
0
1
2
3
M8942.42
M9098.90
M9163.14
M9220.19
M9311.77
M9382.42
M9443.09
M9501.96
M9604.27
M9652.37
M9740.82
M10232.5
M10454.6
M10747.8
M11240.8
M11407.8

FIGURE 3D

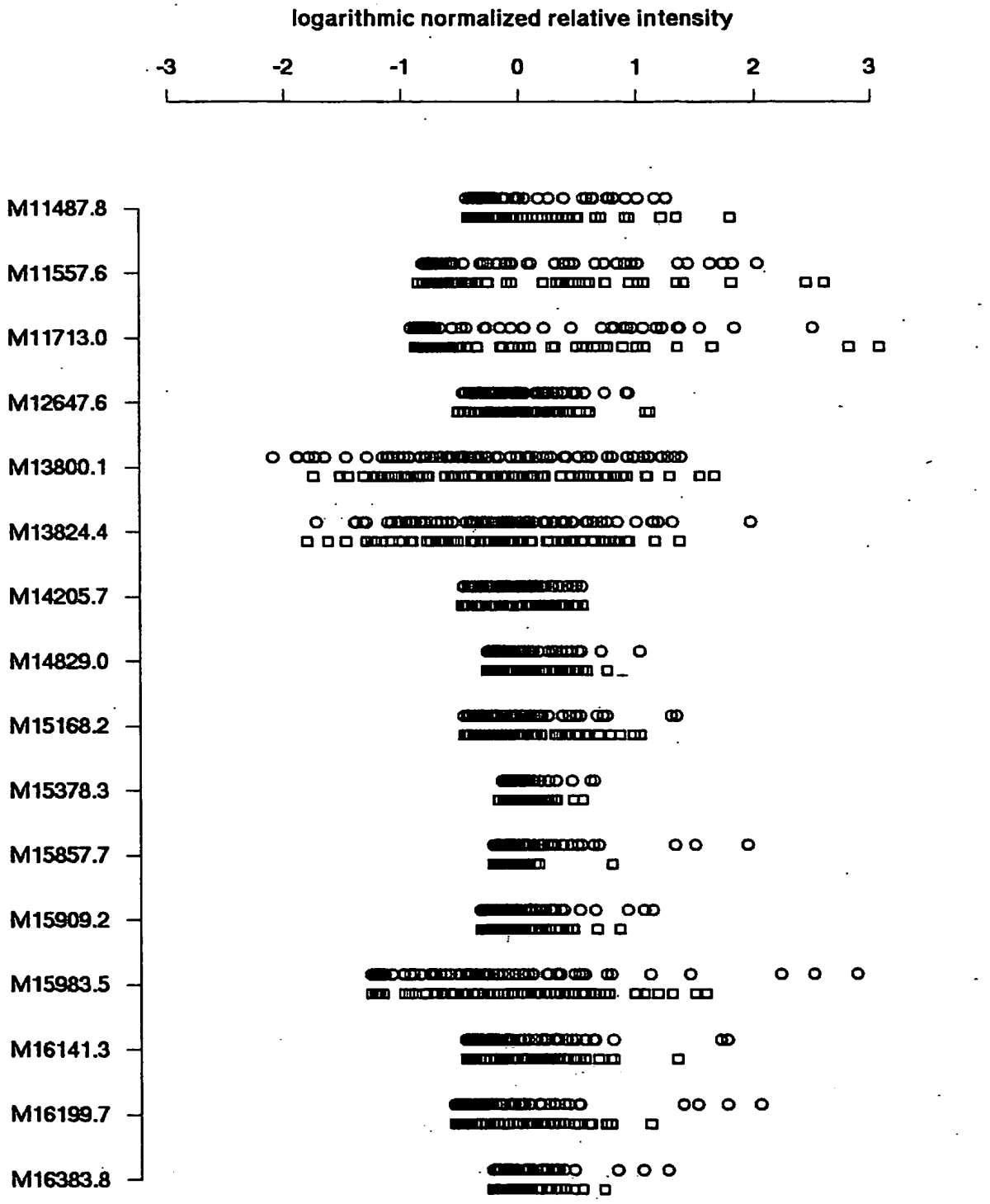

logarithmic normalized relative intensity
-3
-2
-1
0
1
2
3
M11487.8
M11557.6
M11713.0
M12647.6
M13800.1
M13824.4
M14205.7
M14829.0
M15168.2
M15378.3
M15857.7
M15909.2
M15983.5
M16141.3
M16199.7
M16383.8

FIGURE 3E

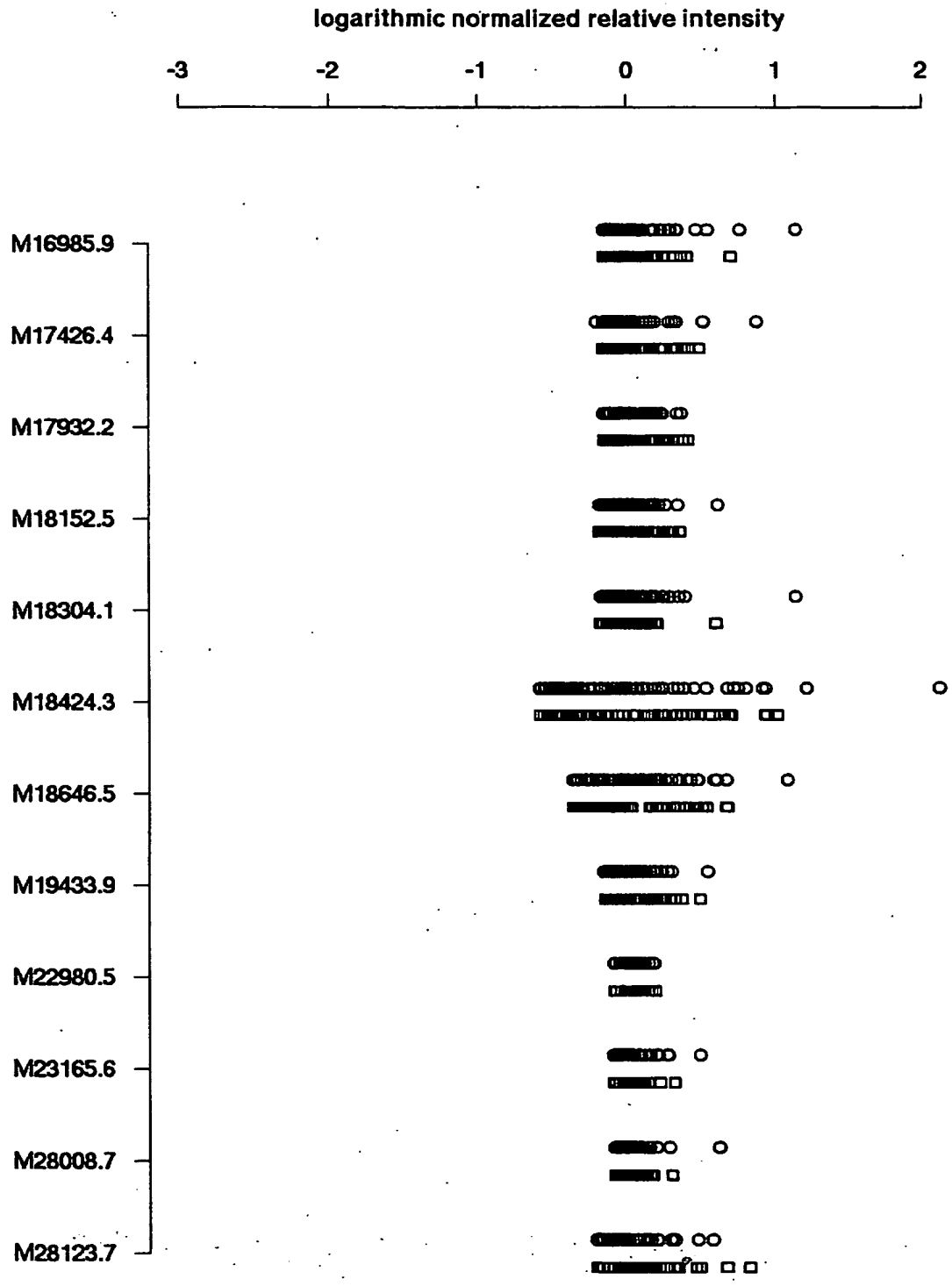

logarithmic normalized relative intensity
-3
-2
-1
0
1
2
M16985.9
M17426.4
M17932.2
M18152.5
M18304.1
M18424.3
M18646.5
M19433.9
M22980.5
M23165.6
M28008.7
M28123.7

FIGURE 4A

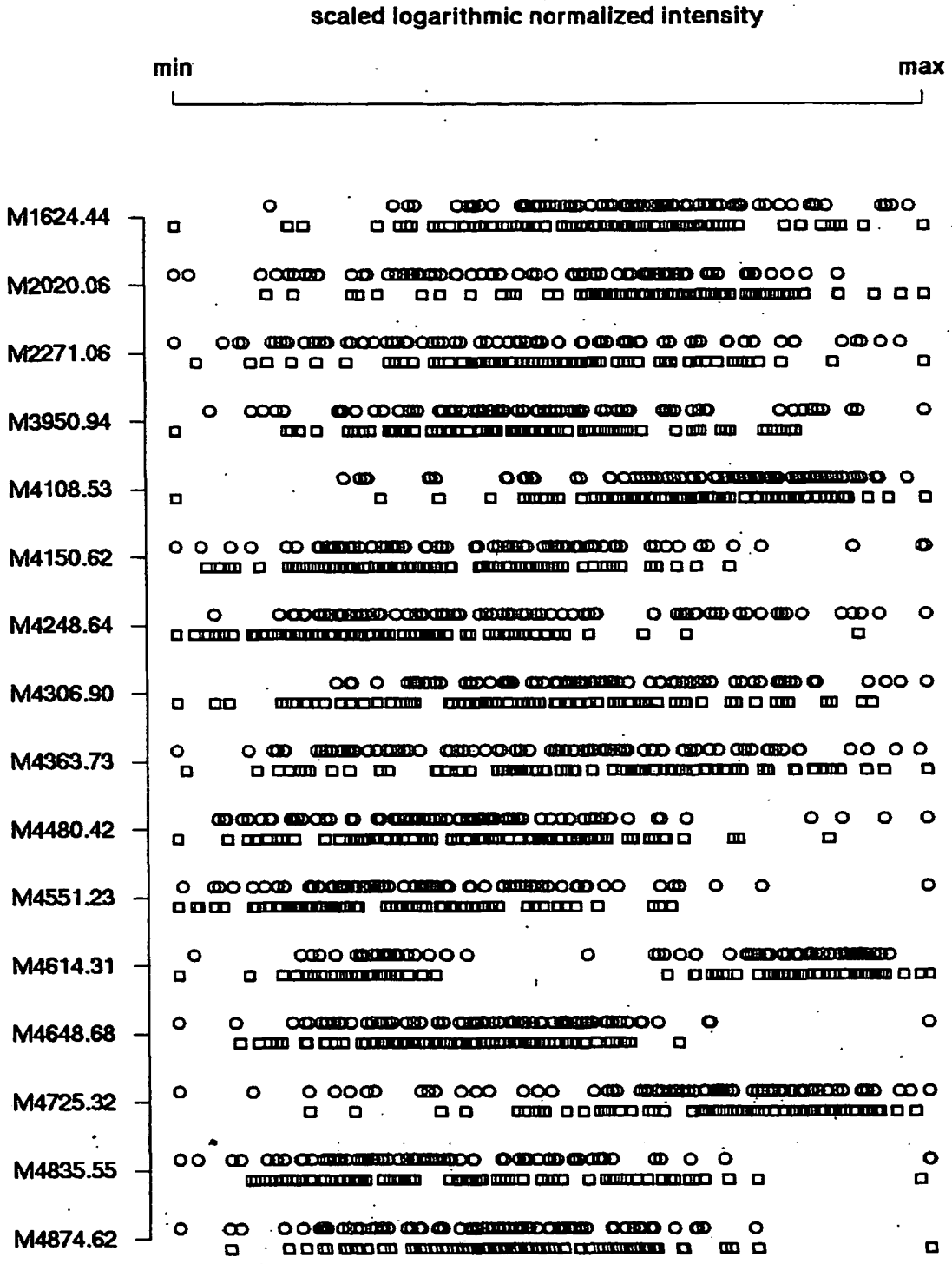

scaled logarithmic normalized intensity
min
max
M1624.44
M2020.06
M2271.06
M3950.94
M4108.53
M4150.62
M4248.64
M4306.90
M4363.73
M4480.42
M4551.23
M4614.31
M4648.68
M4725.32
M4835.55
M4874.62

FIGURE 4B

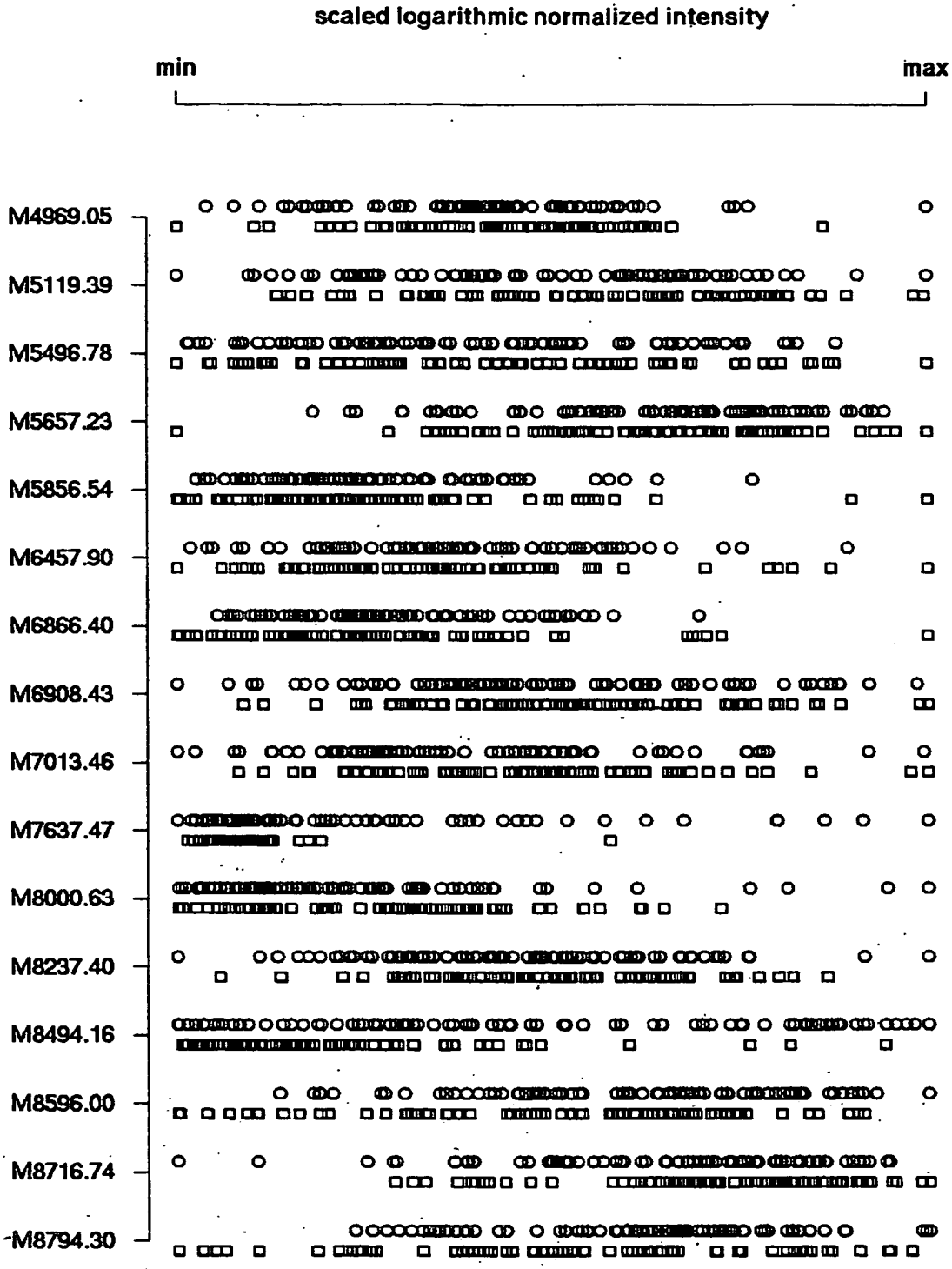

scaled logarithmic normalized intensity
min
max
M4969.05
M5119.39
M5496.78
M5657.23
M5856.54
M6457.90
M6866.40
M6908.43
M7013.46
M7637.47
M8000.63
M8237.40
M8494.16
M8596.00
M8716.74
M8794.30

FIGURE 4C

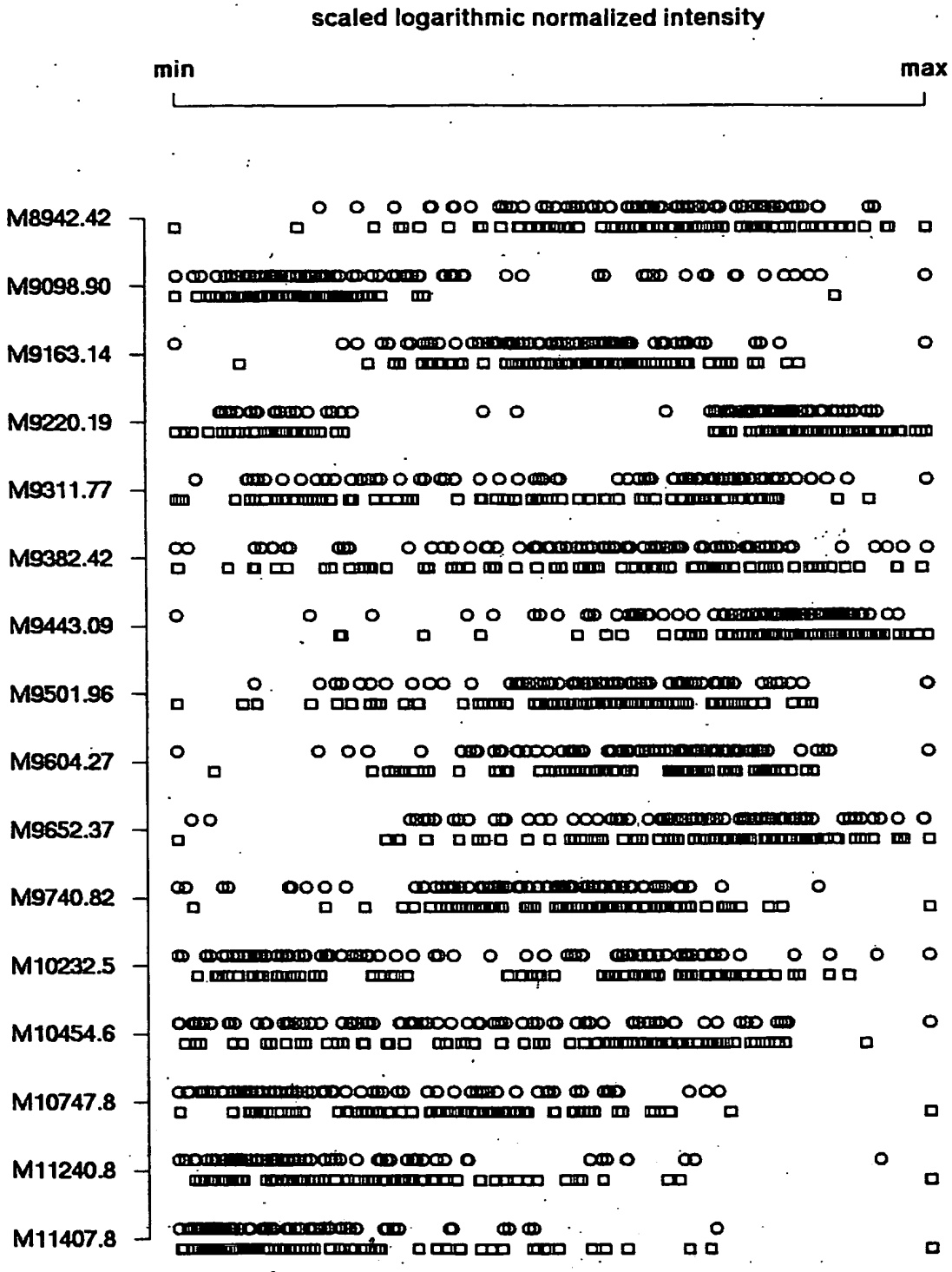

scaled logarithmic normalized intensity
min
max
M8942.42
M9098.90
M9163.14
M9220.19
M9311.77
M9382.42
M9443.09
M9501.96
M9604.27
M9652.37
M9740.82
M10232.5
M10454.6
M10747.8
M11240.8
M11407.8

FIGURE 4D

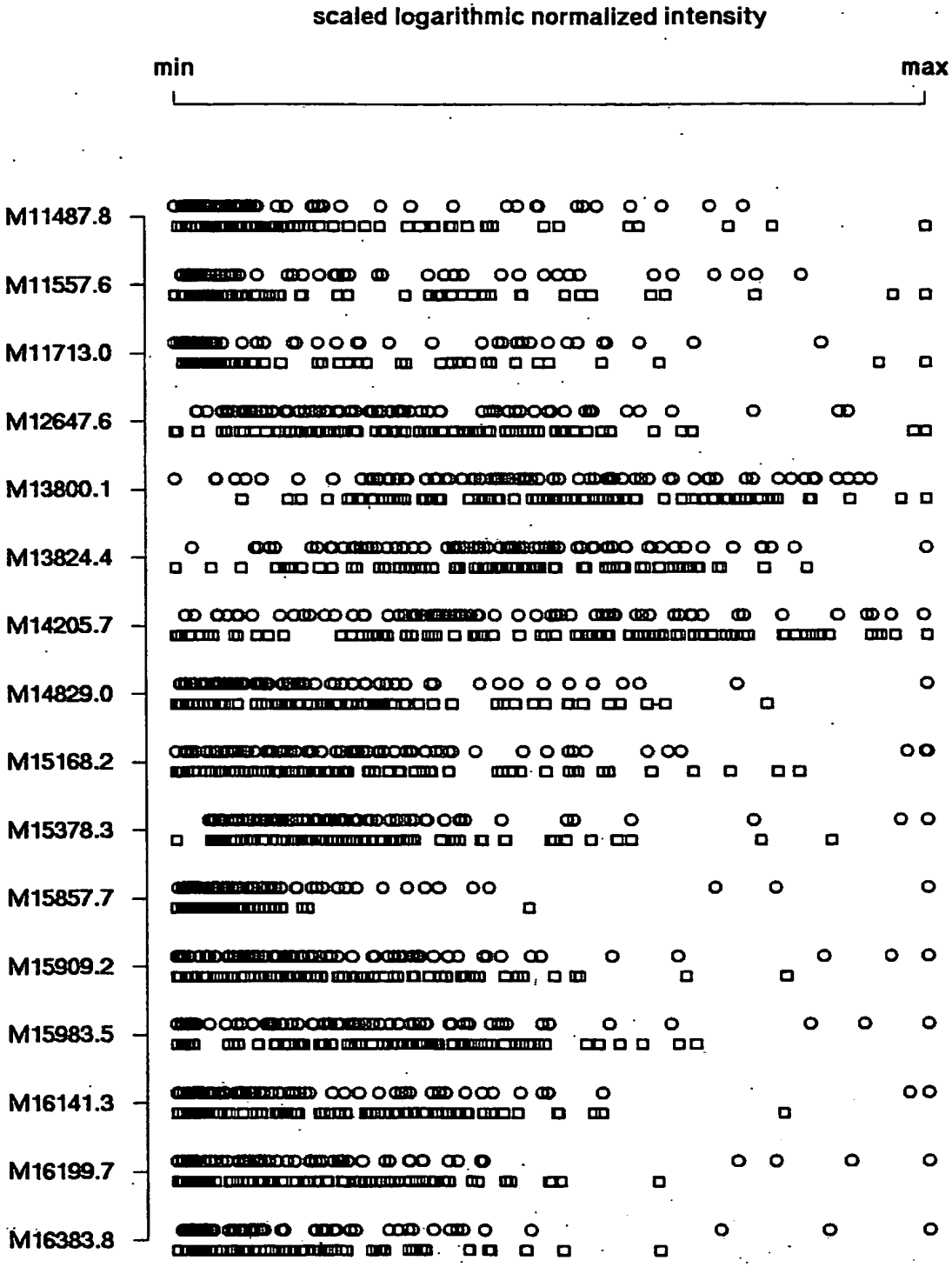

scaled logarithmic normalized intensity
min
max
M11487.8
M11557.6
M11713.0
M12647.6
M13800.1
M13824.4
M14205.7
M14829.0
M15168.2
M15378.3
M15857.7
M15909.2
M15983.5
M16141.3
M16199.7
M16383.8

FIGURE 4E

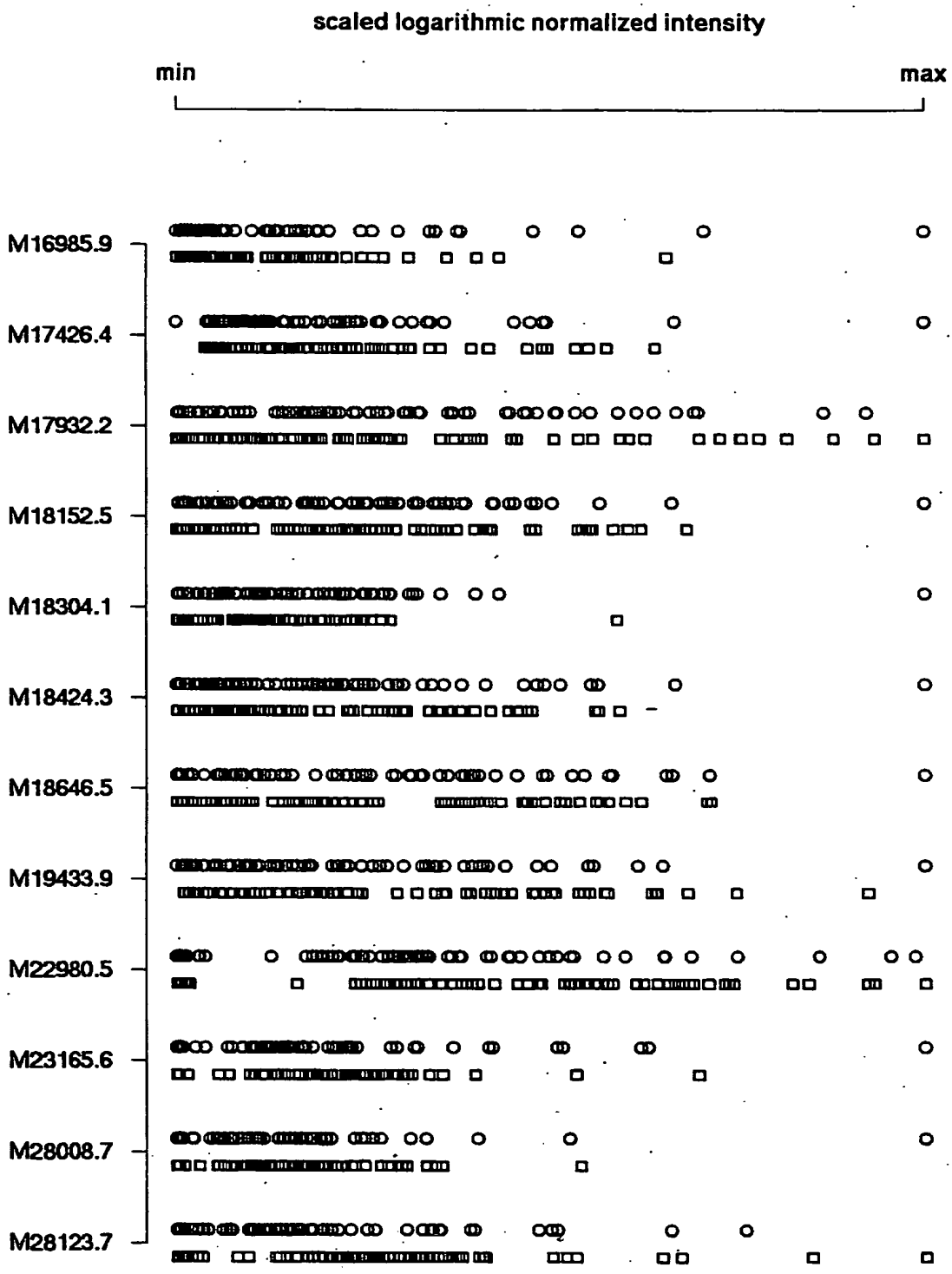

scaled logarithmic normalized intensity
min
max
M16985.9
M17426.4
M17932.2
M18152.5
M18304.1
M18424.3
M18646.5
M19433.9
M22980.5
M23165.6
M28008.7
M28123.7

FIGURE 5

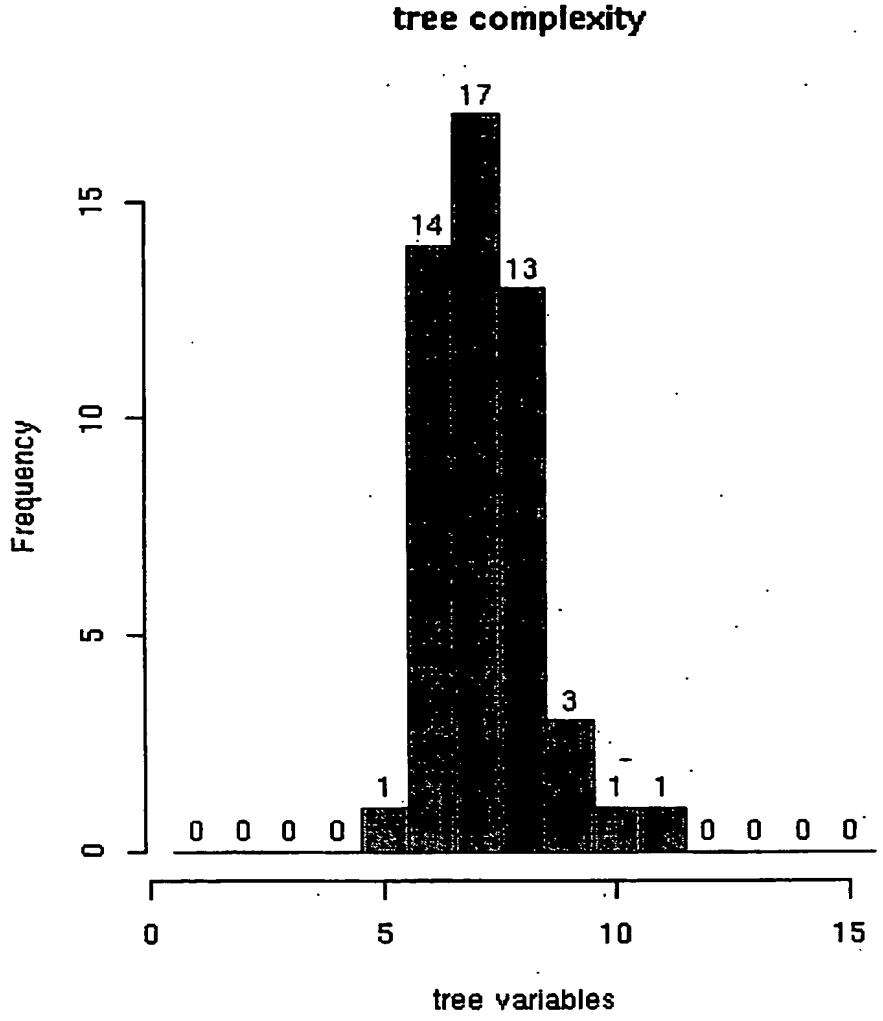

tree complexity
Frequency
0
5
10
15
0 0 0 0 1 14 17 13 3 1 1 0 0 0 0
0
5
10
15
tree variables

FIGURE 6

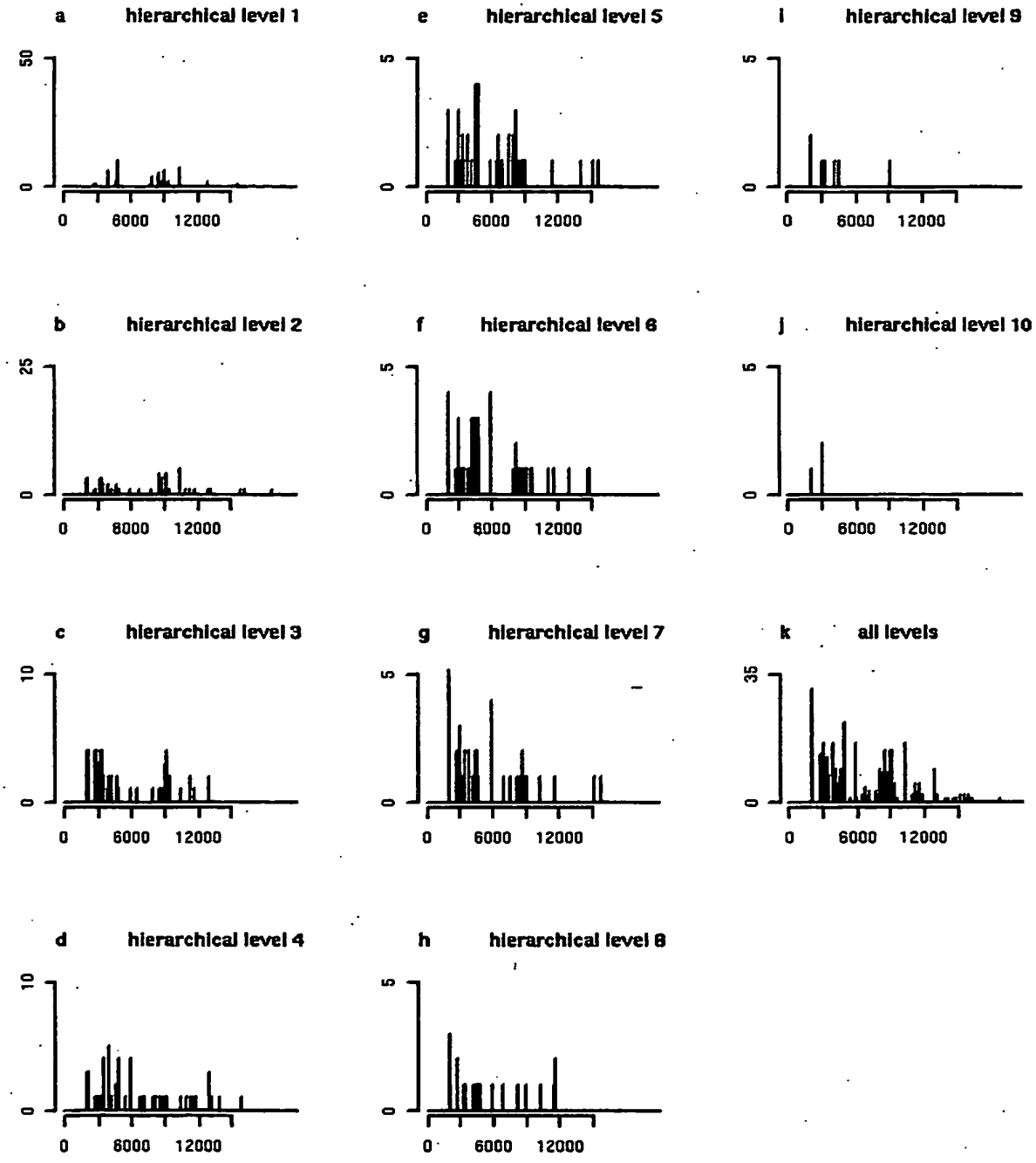

a hierarchical level 1
e hierarchical level 5
i hierarchical level 9
b hierarchical level 2
f hierarchical level 6
j hierarchical level 10
c hierarchical level 3
g hierarchical level 7
k all levels
d hierarchical level 4
h hierarchical level 8
0
6000
12000

FIGURE 7

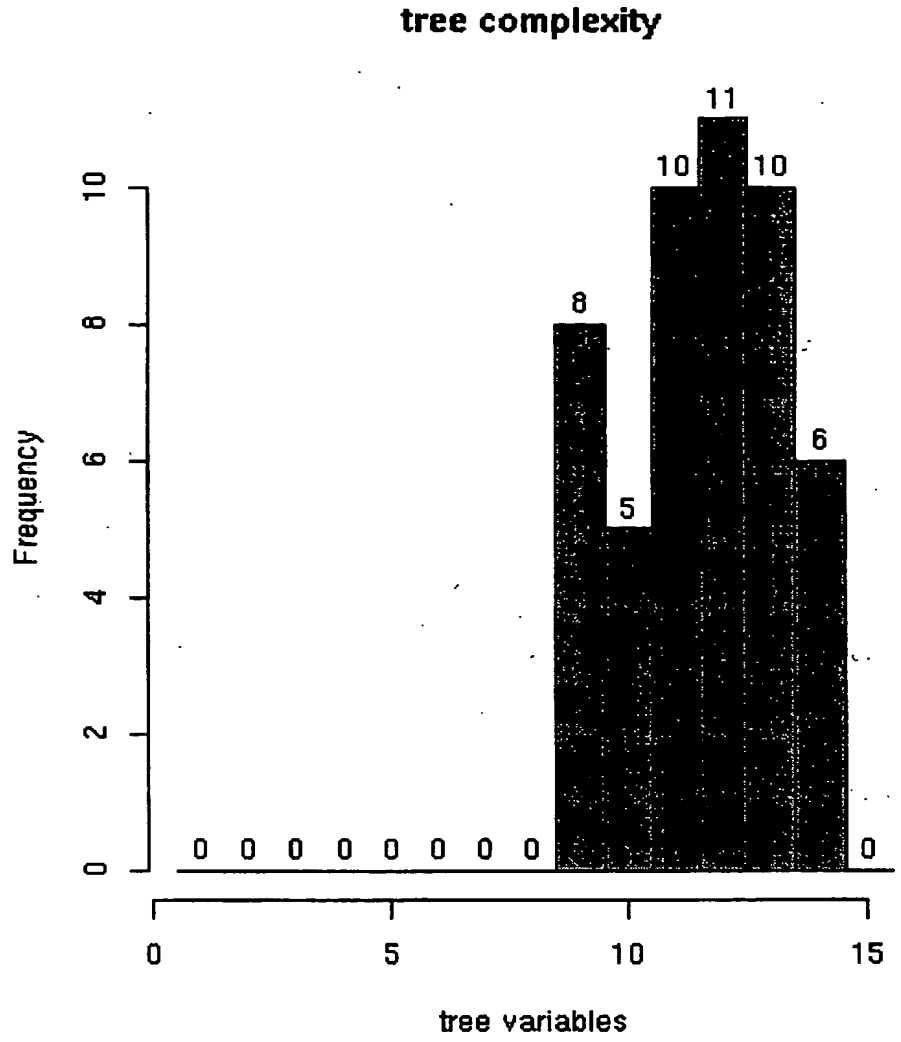
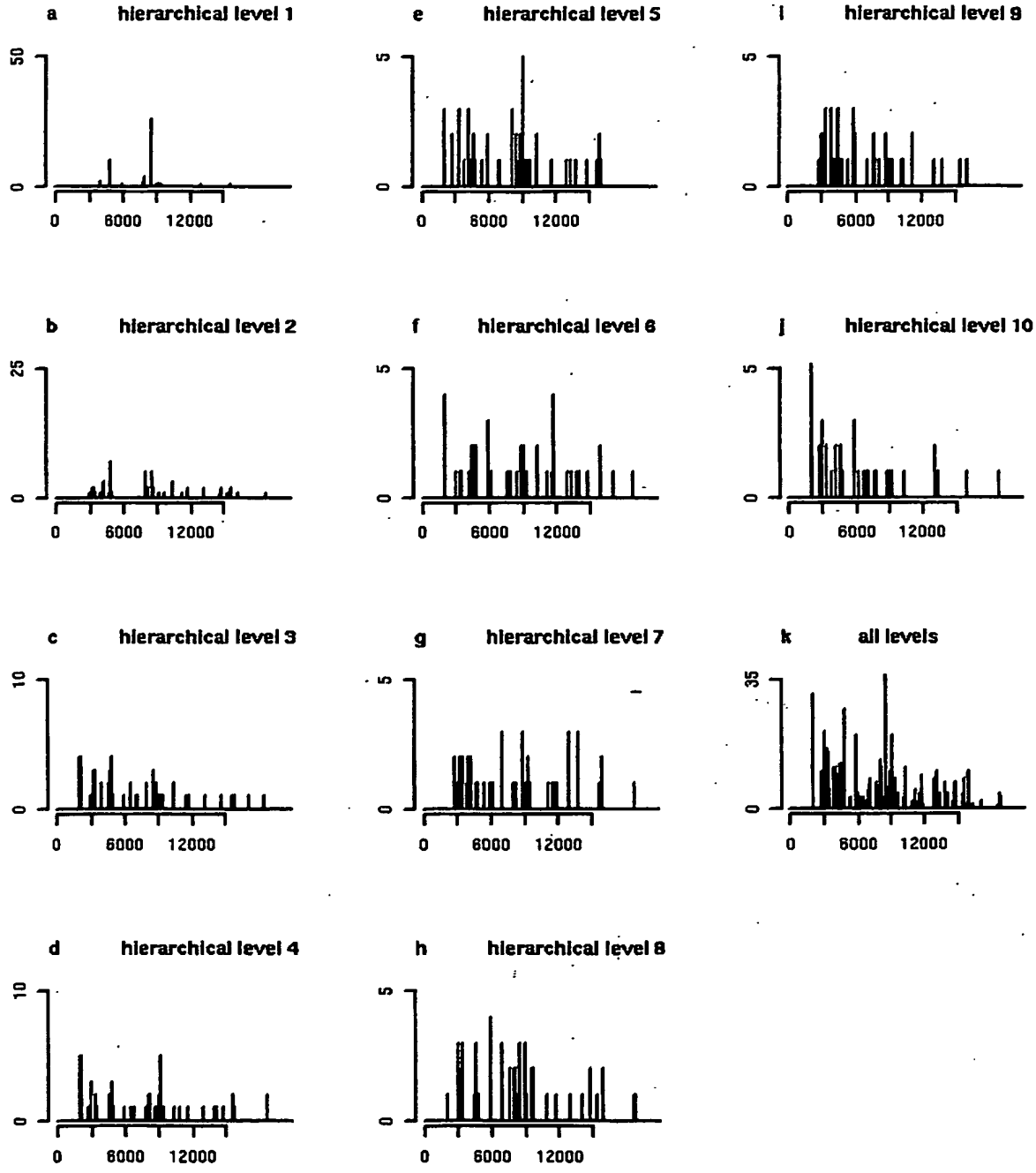

tree complexity
Frequency
0
2
4
6
8
10
0 0 0 0 0 0 0 0 8 5 10 11 10 6 0
0
5
10
15
tree variables

FIGURE 8


a hierarchical level 1
50
0
0 6000 12000
e hierarchical level 5
5
0
0 6000 12000
i hierarchical level 9
5
0
0 6000 12000
b hierarchical level 2
25
0
0 6000 12000
f hierarchical level 6
5
0
0 6000 12000
j hierarchical level 10
5
0
0 6000 12000
c hierarchical level 3
10
0
0 6000 12000
g hierarchical level 7
5
0
0 6000 12000
k all levels
35
0
0 6000 12000
d hierarchical level 4
10
0
0 6000 12000
h hierarchical level 8
5
0
0 6000 12000